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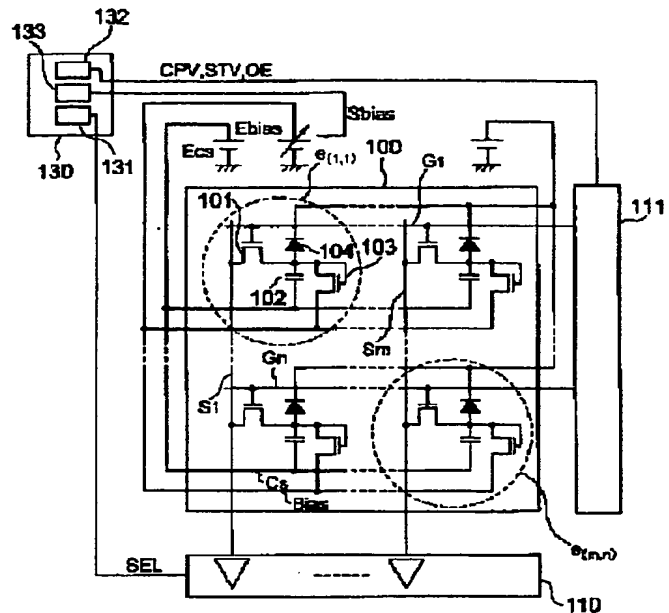
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TITLE : IMAGE-PICKUP DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide an image-pickup device which has a large dynamic range and capable of coping with plural image-pickup modes.

SOLUTION: Pixels $e(i, j)$, respectively provided with photoelectric conversion elements, are arrayed like a matrix array and a capacitor 102 for storing electric charges which correspond to the intensity of transmitted light and a protection diode 103 for limiting storing capacity are arranged in each pixel $e(i, j)$. Bias voltage is applied to the diode 103 through a bias line Bias. The bias voltage is controlled by a bias voltage control system 133 in accordance with frame frequency. Consequently, the effects of charge stored in the capacity 102 for image-pickup due to a leaked current generated when the diode 103 is turned off can be reduced, and an image of a high SN ratio can be obtained independently of frame frequency.

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